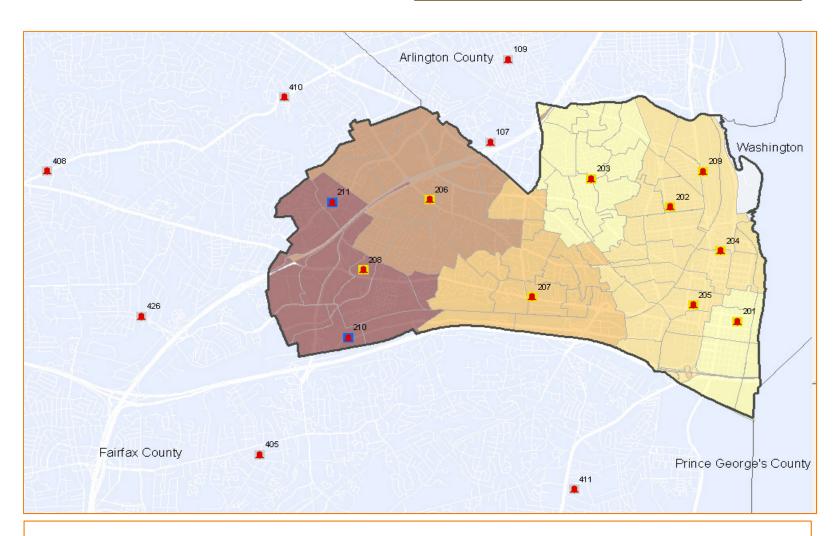
Alexandria Fire Department Fire-Rescue Station 211

City West End Beauregard-Seminary Area

Background

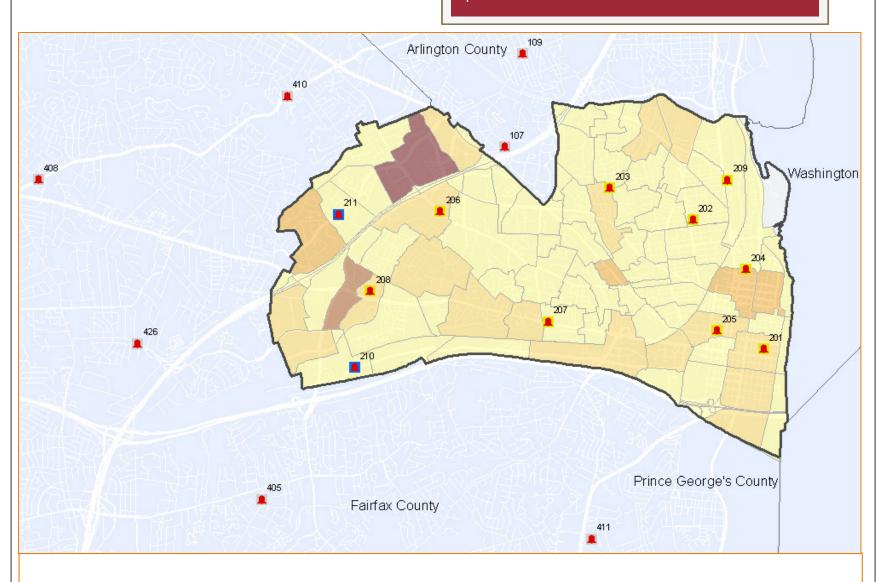
- City Operates 9 Fire Stations
 - Oldest Built in 1921; Newest in 2009
 - 7 Stations Situated in East End of Town
 - 2 West End Stations:
 - Busiest in City
 - Automatic Aid Supplement from Fairfax & Arlington
 - New Station 210 (Eisenhower Ave) Opening in 2013
- City Building Stock a Challenge
 - Historic to New
 - Residential, Commercial, Office, Industrial
 - Single Family, Garden Apartment, High Rise, Town Home
 - With and Without Sprinklers
- Call Volume Increasing
 - Nearly 19,000 calls Annually and Growing
 - Density--Buildings, Traffic, People--Drives Demand



Call Volume by Station Area

Current Situation (July 2011)



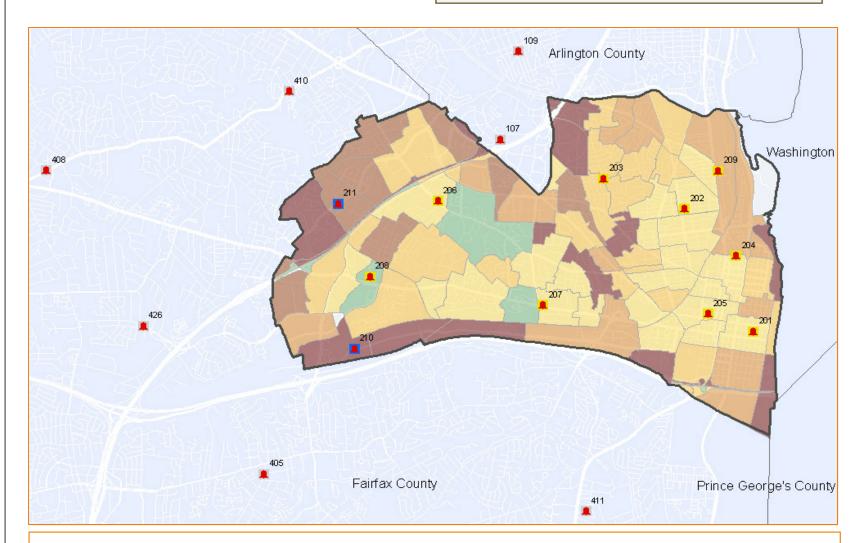


Call Volume by Fire Box

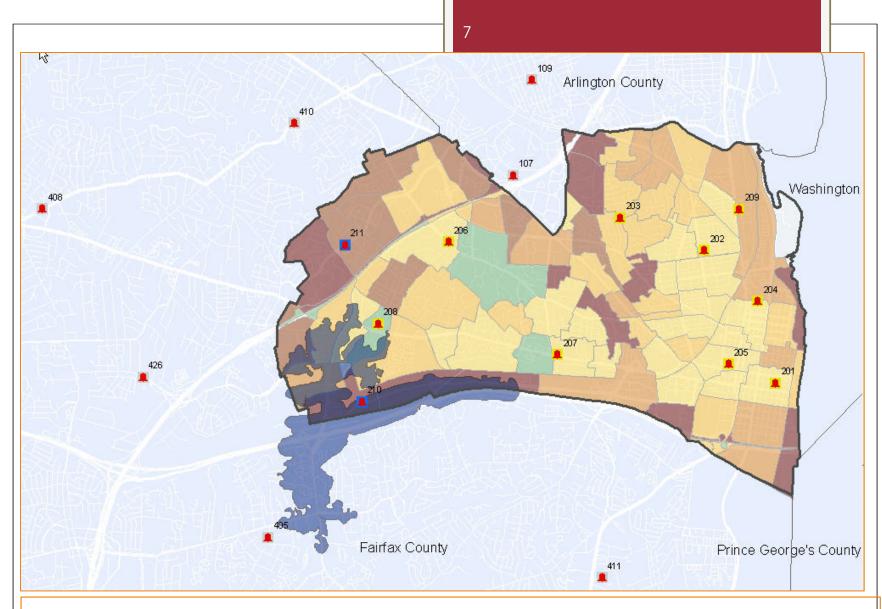
West-End Response Times

- Department Adheres to Standard Metrics for Response Times
 - Brain Death can Occur within 4-6 Minutes of a Heart Attack
 - After 1 Minute, a Fire Exponentially Grows Bigger and Spreads Faster
- Response Time Components for 90% of Calls

| Call Processing in Dispatch | 1.0 Min. |
|--------------------------------------|--------------------------|
| Turn-Out Time in Station | 1.0 Min. |
| Travel Time from Station to Incident | <u>4.0 Min.</u> |
| Subtotal, Current Times | 6.0 Min. |
| Post-BRAC Add-On Times | <u>+11.0 - +12.0 Min</u> |
| Total Time Range Post-BRAC | 17.0 – 18.0 Min. |



Percent (%) of Emergency Incidents with Response Time within 5.5 Minutes. *Current Status (July 2011)*



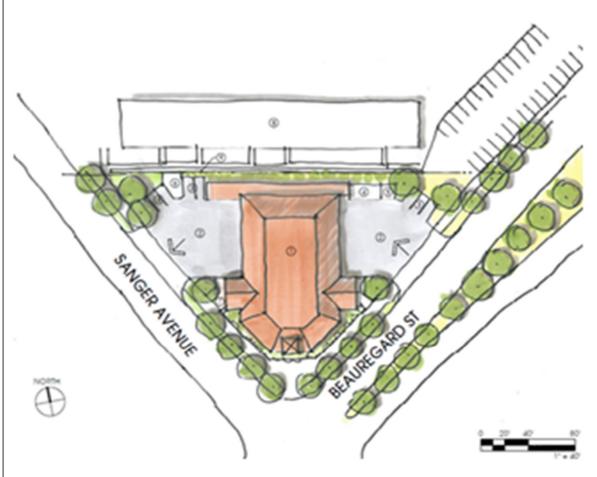
Percent (%) of Emergency Incidents with Response Time within 5.5 Minutes. (Expanded Coverage with an Operational Station 210 (Eisenhower Ave))

Enhance Response Times in the West-End

- Propose New Station 211
 - Optimal Location: Beauregard & Sanger
 - Cover Entire West End
 - Enhance Response Times
 - Four-Bay Station:

| • Engine | Living Quarters |
|--------------------------------------|--|
| Ladder Truck | • Offices |
| Medic Unit | Work & Storage Areas |
| Command Vehicles | Community Room |

Fire Station 211: Preliminary Concept Design



Fire Station # 211:

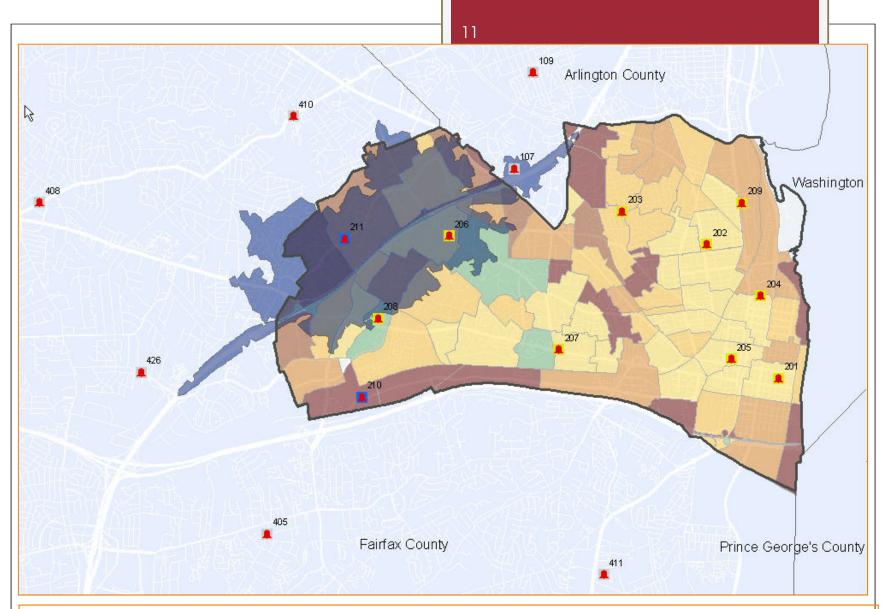
- Building area 18,752 sq. ft. (19,608 mezzanine storage area)
- Two-story structure
- 4 Bays
- 18 Bunks
- Community Room 473 sq. ft.
- 8 parking spaces onsite / additional parking to be located east of existing apartment building

Fire Station 211: Preliminary Concept Design



Site Constraints:

- Currently located in flood hazard area in Beauregard Study Area
- Currently in close proximity to flood dam inundation area
- Existing buildings will remain on the site through the last phase of JBG proposed development
- Future Transitway will run along Beauregard constraining right of way expansion



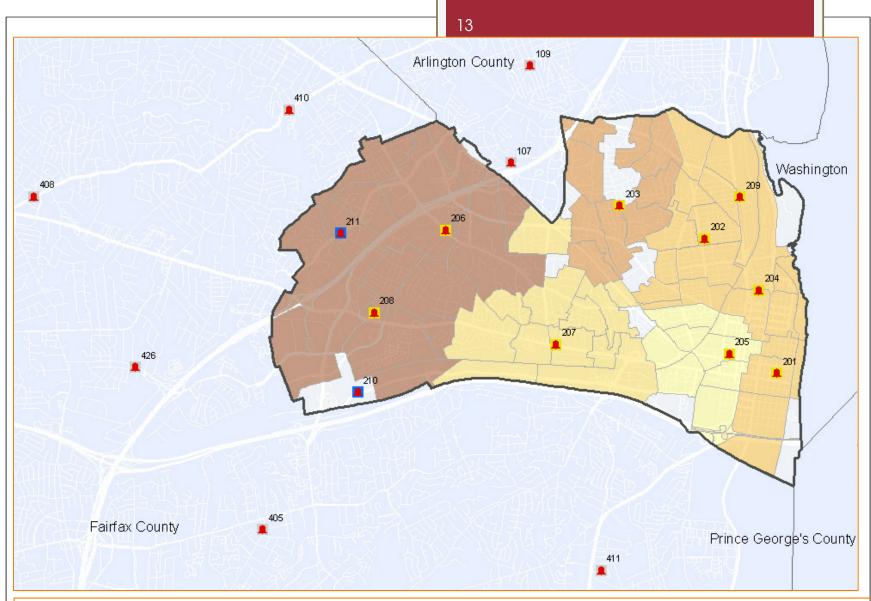
Percent (%) of Emergency Incidents with Response Time within 5.5 Minutes. (Expanded Coverage with an Operational Station 211 (Beauregard & Sanger))

Automatic Aid to the City

- Automatic Aid Agreements among Alexandria, Arlington, Fairfax.
- Most Incidents Require Automatic Aid.
 - Example: First Alarm Structural Fire per NOVA Protocols:

| • 4 Engines | • 2 Trucks |
|----------------------|--|
| • 1 Medic Unit | 2 Battalion Chiefs |
| • 1 Medic Supervisor | • 1 Safety Officer |

Takes 4 of 8 City Engines and 2 of 3 City Trucks



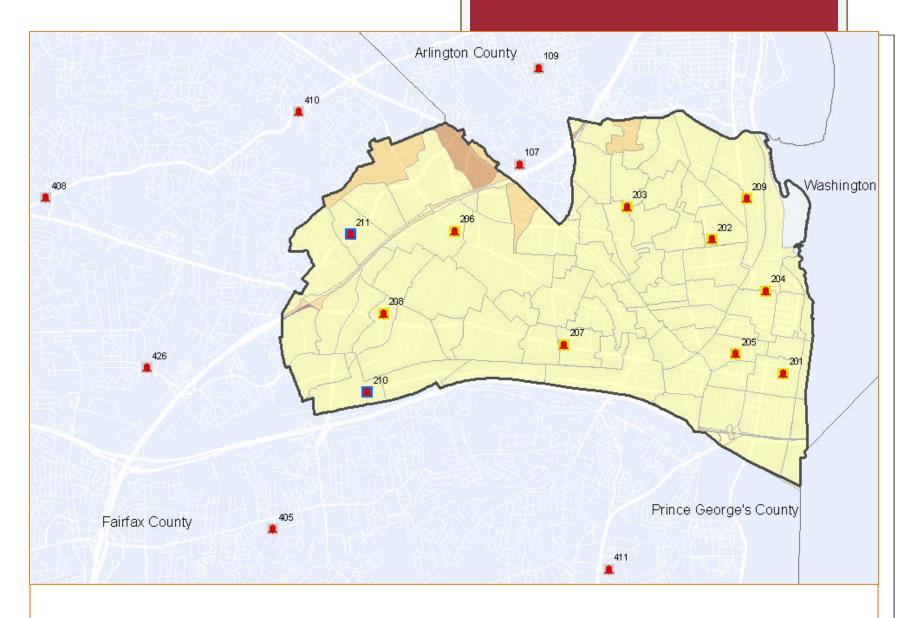
Percent (%) of Full Alarm Incidents that Include Aid Received by Fire Station Area

Reliance on Automatic Aid

All Areas of City Receive Automatic Aid Services

| Auto. Aid Station | No. of Calls into City | City Calls/Total Calls |
|---------------------------------|------------------------|------------------------|
| Arl. 107. Fairlington | 789 | 51% |
| Arl. 109. Walter Reed | 125 | 6% |
| FF. 405. Franconia | 119 | N/A |
| FF. 408. Annandale | 6 | 0% |
| FF. 410. Bailey's Crossroads | 190 | 6% |
| FF. 411. Penn Daw | 250 | N/A |

 West End Heavily Reliant upon Assistance from Arlington and Fairfax Counties, even for "Routine" Incidents

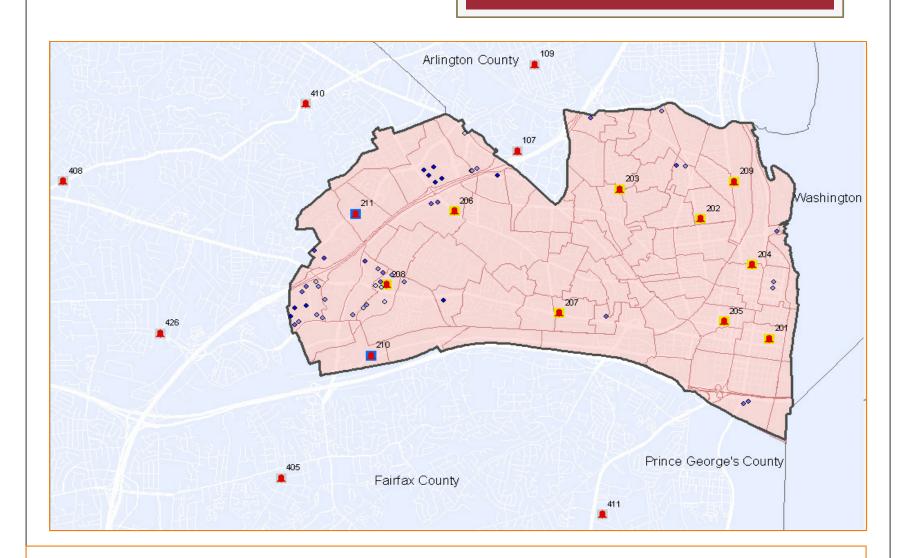


Percent (%) of Incidents with 1st Arriving Unit from Other Jurisdiction

Challenge: High Rises w/o Sprinklers

- 48 High-Rise Buildings without Sprinklers
- Larger High Rises Contain +450 Units
- Ladder Trucks Reach to Floors 7 or 8
 - Means Firefighters Must Walk Up Stairs...
 - Carrying 160 lbs. of Equipment...
 - And Rely on 3-Person Minimum Staffing on Apparatus.*
 - When It Doesn't Go Right:
 - 2007. Edsall Rd. High Rise Fire. 6 Firefighters Hospitalized
- BRAC Makes it Harder
 - Traffic Congestion
 - Non-Standard Responses Requiring More Department Resources

*4-Person Minimum Staffing Approved for Four Engine Companies in FY 2012 using Federal SAFER Grant Funding from FEMA

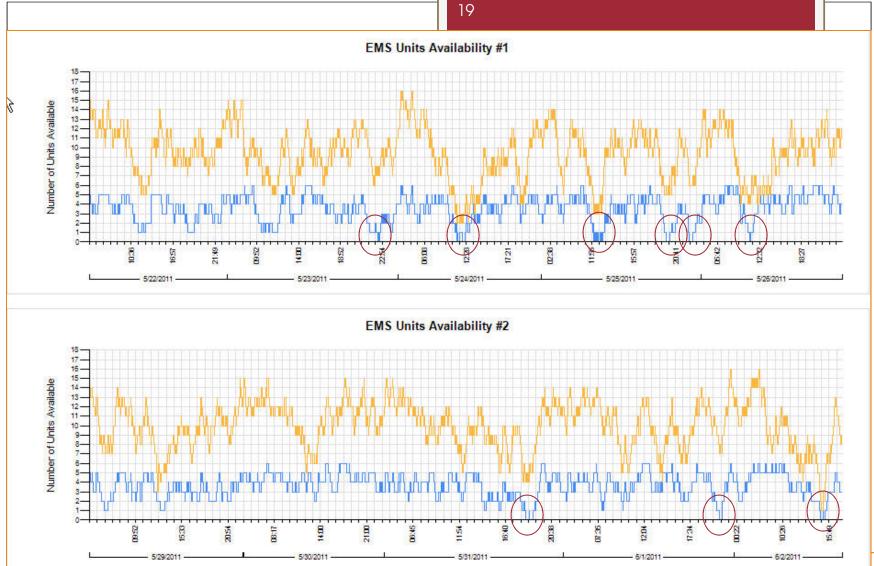


High Rises without Sprinklers

Challenge: EMS Calls on Rise

- Approximately 68% of all Calls are EMS-Related
- Currently Operate:
 - Five (5) Round-the-Clock Units: 24/7/365
 - One (1) Peak-Time Unit: 7/365
- Medic Units are not always Available:
 - Example: June 2, 2011. 3:00 PM.
 - No Medic Unit Available
- For Region-Wide Emergencies, Aid Calls Rely on Support Beyond our Neighboring Jurisdictions.
 - Example: In the past year, have received 7 Medic Unit Responses from Mount Vernon





Number of Alexandria Units and 10 closest Units from Other Jurisdictions Available by Date and Time